

ALL GROUND[®] SOLUTIONS

Quick and easy cable burial



INSTALLATION IS SIMPLER, FASTER

General Cable is a market leader in cable manufacture on a global scale. The company, which is constantly expanding and developing, has 57 production sites and over 14,000 employees, serving a worldwide network of clients.

The ALL GROUND® concept was developed in the late 90's in France in conjunction with EDF, the French DSO in order to offer an efficient solution to save money and time for cable laying. This ALL GROUND® concept has been granted a specific authorization of use (called ATE) by EDF for many years and thus it is recommended in many projects .

The ALL GROUND® concept is an innovative technology intended to reduce the problems encountered when laying low- and medium-voltage (LV, MV) networking cables.

This concept can be adapted to any type of product.

A QUICK AND EASY CABLE BURIAL

ALL GROUND® solution has been recognized for many years as a real asset for installers when it is time for installation. Installers are unanimous, this easy-to-use product greatly simplifies on-site work. The installation period is shorter and as a consequence, the complete cost of installation is cheaper.



*Installation is simpler
No need to bring controlled backfill or sand*



Installation is faster - Example of traditionnal cable laying

1 dig trench **2** burry cable **3** close trench

INSTALLATION IS SAFER

A SAFER SITE WORK

In case of roadside cable installation, the use of the **ALL GROUND®** solution means the trenches can be backfilled and the ground compacted immediately after laying, so the roads can quickly be freed of installation-related traffic. The lessened use of motorised equipment also makes the site safer for all the workers.



Installation is safer

AN ECO-FRIENDLY CONCEPT

The use of **ALL GROUND®** sheath instead of a conventional cable can bring many advantages:

- the cable is laid in **trenches less deep and less wide**
- the cable do not contain heavy metals
- the cable is naturally resistant to termites which means no environmentally-damaging repellents need to be used
- the cable is flame resistant
- the cable can be buried without bringing in sand or special backfill.

The use of the local earth to bury the cable greatly **reduces the carbon footprint of the work**, and also significantly reduces the need to use motorised equipment.



A UNIQUE TECHNOLOGY WITH MANY ADVANTAGES

When you install a cable with the All Ground® concept, you can rest assured of a strong connection.

The design of the ALL GROUND® concept is unique on the market, the specificity lies in its grooved outersheath that will enable the cable to be buried directly in the ground.



IMPROVED MECHANICAL PROTECTION

This additional sheath has many advantages which guarantee:

- **excellent mechanical-shock resistance**
- **excellent abrasion resistance**
- **good thermo-mechanical behaviour**

MAINTAINED TRANSPORT CAPACITY

Moreover, this new sheath this unique makeup of the sheath makes for a greater heat-exchange surface area, which helps **maintain the cable's energy transport capacity.**



Curvature radius of All Ground® cable
= Curvature radius of standard cables.



Conditioning of All Ground® cables
= Conditioning of standard cables.

AN INNOVATIVE SOLUTION



Example of mechanized installation: 3 pre-assembled single cores laid at the same time and directly buried.

EASY TO PREPARE

The sheath of **ALL GROUND®** cable, made of a thermoplastic-elastomer material, is naturally strippable, so the cable can be easily prepared without the need for any specific tools.

ALL GROUND® solution is particularly well suited for installations in the following conditions:

- Harsh or hard soils
- Urban areas which are difficult to access
- Protected areas
- Windfarms
- PV power farms

CUSTOMIZED SOLUTION

• Optimized delivery length

Cables with **ALL GROUND®** sheath are available in single core version which offers very long length of cable for very long distance cable laying thus limiting the number of junctions needed on the link. Moreover, despite its additional sheath, the flexibility of cable with **ALL GROUND®** sheath will remain the same.

• Available for every type of design*

The **ALL GROUND®** sheath can be added to any type of design, low, medium or even high voltage cables. Don't hesitate to contact us, we have a solution for every customer, every project.

* the All Ground® concept can be adapted to any type of design, please contact us for more information



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